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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,984	02/15/2007	Johan Eker	P18656-US2	1283
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6300 LEGACY		WITZENBURG, BRUCE A		
M/S EVR 1-C-11 PLANO, TX 75024			ART UNIT	PAPER NUMBER
			2166	
			NOTIFICATION DATE	DELIVERY MODE
			08/05/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)		
	10/595,984	EKER ET AL.		
Office Action Summary	Examiner	Art Unit		
	BRUCE A. WITZENBURG	2166		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
Responsive to communication(s) filed on 26 M. This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E.	action is non-final. nce except for formal matters, pro			
Disposition of Claims	panto (alayio, 1000 0.21 1., 10	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
4) Claim(s) 22-42 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 22-42 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine	wn from consideration. r election requirement.			
10) ☐ The drawing(s) filed on 23 May 2006 is/are: a) ☐ Applicant may not request that any objection to the care Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		

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DETAILED ACTION

1. In view of applicant's amendments filed 05/26/2010, claims 22-42 remain pending in this application.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 22-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Crudele et al. (U.S. 2002/0099726) hereafter Crudele, in view of Brown et al. (U.S. 7,203,886) hereafter Brown and in further view of Weng (US 7,085,988) hereafter Weng.

Regarding claim 22, Crudele discloses a method of differentially updating an image of stored data in a mobile terminal from a first data version to an updated data version, the method comprising the steps of:

loading differential update instructions into a flash memory of the mobile terminal; (Abs; ¶0013; ¶0022; ¶0024 Note that while flash memory is not specifically used, it would have been obvious to one of ordinary skill in the art at the time of the invention to use flash memory when it provides the best, easiest, or perhaps only storage location as is

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the case with most flash-based, embedded or mobile computing generating an updated data version from the stored data and the loaded differential update instructions; (Abs; ¶0013 - ¶0015; ¶0022) and

detecting whether the image of stored data in the flash memory of the mobile terminal includes one or more corrupted memory blocks having stored therein data that is inconsistent with the first data version; (Abs; ¶0025; ¶0032)

While Crudele does disclose that data integrity checks are important for delta updates, it does not specifically disclose repairing corrupted blocks

Brown discloses repairing, any such detected corrupted memory block; wherein the image of stored data in the flash memory is updated in-place such that data of the first data version is reused and reorganized to generate the updated data version. (The majority of the disclosure of Brown with specific reference to Abs; Fig 3; Col 4, line 36-62 Because the disclosure of Crudele makes apparent the need to have uncorrupted data in the delta update system, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Brown with the teachings of Crudele in order to repair corrupted data during the update process in order to automate the update of all clients instead of only clients without corrupt data. Further the disclosure of Weng also makes it apparent that ECC is done in-place. It would have been obvious to combine the teachings of Weng with those of Crudele as modified in order to apply ECC. Additionally note the disclosure of Weng is simply a more in-depth disclosure of ECC itself.

Regarding claim 23, claim 23 is rejected for substantially the same reason as claim 22 above. Note that Brown generates differential information for updating corrupt data blocks.

Regarding claim 24, claim 24 is rejected for substantially the same reason as claim 23 above.

Regarding claim 25, claim 25 is rejected for substantially the same reason as claim 23 above.

Regarding claim 26, claim 26 is rejected for substantially the same reason as claim 22 above.

Regarding claim 27, claim 27 is rejected for substantially the same reason as claim 22 above.

Regarding claim 28, while the cited references do not specifically disclose making use of a wireless communications link, such a link is well known and well appreciated in the art at the time of the invention and it would have been obvious to use a wireless link when access to a wired link is inconvenient or impossible.

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Regarding claim 29, claim 29 is rejected for substantially the same reason as claim 23 above.

Regarding claim 30, Claim 30 is rejected for substantially the same reason as claim 23 above. Note that Crudele communicates with a remote update file and it remains obvious to one of ordinary skill in the art at the time of the invention to apply known ECC techniques to the delta update in order to assure data is accurate.

Regarding claim 31, claim 31 is rejected for substantially the same reason as claim 30 above.

Regarding claim 32, Brown discloses detecting further comprising the steps of: calculating a number of checksums by the processor of the mobile terminal, wherein each checksum corresponds to a corresponding memory block of data stored in the flash memory of the mobile terminal; (Col 3, line 59 – Col 4, line 10 Note Brown calculates ECC data on a block-by-block basis) and comparing the calculated checksums with a number of reference checksums to identify any corrupted memory block of data. (As above) Additionally note that the disclosure of Weng also makes it apparent that ECC is based on hash comparison.

Regarding claim 33, claim 33 is rejected for substantially the same reason as claim 32 above.

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Regarding claim 34, Crudele does not specifically disclose the step of integrity protecting the reference checksums stored in the mobile terminal by a message authentication code, however Crudele does disclose using a message authentication code on all existing base data in the header of the software package file (Abs) Given the above need to verify underlying information, it would have been obvious to one of ordinary skill in the art at the time of the invention to use a message authentication code on the existing authentication data to verify header data has not been compromised also.

Regarding claim 35, claim 35 is rejected for substantially the same reason as claim 32 above.

Regarding claim 36, Weng discloses the calculating step further comprising the step of calculating the checksums as a cryptographically strong one-way hash function of the corresponding memory block of the image of the stored data. (Abs; Col 1, line 55 – Col 2, line 44; Col 3, lines 4 - 59)

Regarding claim 37, claim 37 is rejected for substantially the same reason as claim 22 above.

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Regarding claim 38, claim 38 is rejected for substantially the same reason as claim 22

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above.

Regarding claim 39, claim 39 is rejected for substantially the same reason as claim 22

above.

Regarding claim 40, claim 40 is rejected for substantially the same reason as claim 22

above.

Regarding claim 41, claim 41 is rejected for substantially the same reason as claim 28

above.

Regarding claim 42, claim 42 is rejected for substantially the same reason as claim 22

above.

Response to Arguments

With respect to applicant's arguments dated 5/26/2010, the arguments have been

considered and have been deemed to be persuasive. A new grounds of rejection has

been presented above.

Conclusion

1. The additional prior art made of reference in this office action is as follows:

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a. Crudele et al. (US 2002/0099726)

b. Brown et al. (U.S. 7,203,886)

c. Weng (US 7,085,988)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRUCE A. WITZENBURG whose telephone number is (571)270-1908. The examiner can normally be reached on M-F 9:00 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Bruce A Witzenburg/

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/Etienne P LeRoux/

Primary Examiner, Art Unit 2161